

**We Claim:-**

1. A seal arrangement for a combustor, the seal arrangement comprising a seal defining a first aperture, an  
5 inner combustor wall defining a second aperture, and an outer combustor wall defining a third aperture, the first, second and third apertures being arranged in line with each other to receive an article therethrough, wherein the seal is arranged between the inner and outer combustor walls.
- 10 2. A seal arrangement according to claim 1, wherein the seal is secured between the inner and outer walls.
3. A seal arrangement according to claim 1, wherein the seal engages at least one of the inner and outer walls.
4. A seal arrangement according to claim 1, wherein the  
15 seal engages both of the inner and outer walls and is secured between said walls by said inner and outer walls.
5. A seal arrangement according to claim 1 wherein the seal comprises an outwardly extending portion to engage the, or each, combustor wall.
- 20 6. A seal arrangement according to claim 5, wherein the outwardly extending portion extends radially outwardly.
7. A seal arrangement according to claim 1, wherein holding means to hold the article, the holding means extending through the aperture in the outer combustor  
25 walls.
8. A seal arrangement according to claim 7, wherein the holding means comprises a guide member to guide the article into said apertures.
9. A seal arrangement according to claim 7, wherein the  
30 holding means is conical in configuration.
10. A seal arrangement according to claim 1, wherein the inner wall comprises a plurality of wall members.
11. A seal arrangement according to claim 10, wherein the wall member comprises a main portion and a spacer to space  
35 the main portion from the outer wall, the spacer extending around the second aperture.

12. A seal arrangement according to claim 1, wherein the inner wall defines cooling means around the second aperture.

13. A seal arrangement according to claim 11, wherein the  
5 cooling means comprises a plurality of cooling channels and a cooling fluid supply groove extending around the second aperture, wherein the cooling channels extend from the supply groove.

14. A seal arrangement according to claim 13, wherein the  
10 cooling channels comprise a plurality of holes extending through the inner wall.

15. A seal arrangement according to claim 13, wherein the cooling channels comprise a plurality of grooves extending along an outer surface of the inner wall to said second  
15 aperture therein.

16. A seal arrangement according to claim 12, wherein at least some of the cooling channels extend inwardly towards the second aperture.

17. A cooling arrangement according to claim 12 wherein at  
20 least some of the cooling channels extend at an acute angle to the second aperture.

18. A seal arrangement according to claim 12, wherein where the second aperture is generally circular in configuration, at least some of the cooling channels are  
25 tangential to the second aperture, or have a constant or variable tangential component thereto.

19. A seal arrangement according to claim 12, wherein the cooling channels are arranged to provide an array of channels extending around the second aperture.

30 20. A sealing arrangement according to claim 19, wherein the array of channels is an annular array and comprises a plurality of rows of cooling channels.

21. A sealing arrangement according to claim 20, wherein one of said rows comprises a plurality of cooling grooves  
35 extending along the inner wall.

22. A sealing arrangement according to claim 20, wherein

the plurality of rows of cooling channels comprises a plurality of rows of cooling holes extending through the inner wall.

23. A sealing arrangement according to any preceding claim  
5 wherein the seal defines seal cooling means around the first aperture.

24. A sealing arrangement according to claim 23, wherein the seal cooling means comprises a plurality of seal cooling holes extending through an outwardly extending  
10 portion of the seal.

25. A sealing arrangement according to claim 24, wherein the seal cooling means comprises a plurality of seal cooling grooves in the outwardly extending portion, extending along a surface of the seal in contact with the  
15 inner wall.

26. A combustion arrangement comprising a combustor having inner and outer walls, wherein at least one of said walls comprises a sealing arrangement as claimed in any preceding claim.

20 27. A gas turbine engine incorporating a combustion arrangement as claimed in claim 21.